

**ABSTRACT OF THE DISCLOSURE**

METHOD AND APPARATUS FOR TRANSFERRING DATA FROM A  
5      MEMORY SUBSYSTEM TO A NETWORK ADAPTER BY EXTENDING DATA  
LENGTHS TO IMPROVE THE MEMORY SUBSYSTEM AND PCI BUS  
EFFICIENCY

A method, apparatus, and computer instructions for  
10     transferring data from a memory to a network adapter in a  
data processing system. The frame size for a transfer of  
the data from the memory to the network adapter is  
identified. If the frame size is divisible by a cache  
line size without a remainder, a valid data length is set  
15     equal to the length field. However, if the frame size  
divided by the cache line size results in a remainder,  
the length field is set to align the data with the cache  
line size. The data transfer is then initiated using  
these fields.